

### Claims

What is claimed is:

1. A method of testing a computer structure, said method comprising:

(i) processing a testcase request against a computer structure to obtain actual results and to update computer structure content;

(ii) processing the testcase request against a computer simulation of the computer structure to obtain simulation results and to update computer simulation content; and

(iii) automatically verifying processing of the testcase request against the computer structure by comparing the actual results against the simulation results, and by comparing the updated computer structure content against the updated computer simulation content.

2. The method of claim 1, further comprising processing multiple testcase requests against the computer structure, and processing the multiple testcase requests against the computer simulation of the computer structure, wherein the automatically verifying comprises automatically verifying processing of the multiple testcase requests by comparing after processing of each testcase request the respective actual results thereof against the simulation results thereof, and the updated computer structure content against the updated computer simulation content, wherein the computer simulation content is automatically updated with processing of each testcase request.

3. The method of claim 2, wherein said processing the testcase request against the computer simulation further comprises automatically intercepting the testcase request for processing against the computer simulation.

4. The method of claim 2, wherein the computer structure comprises a list structure or a cache structure.

5. The method of claim 4, wherein the computer structure comprises a duplexed computer structure and wherein the processing (i) of the testcase request comprises processing the testcase request against at least one of a primary structure or a secondary structure of the duplexed computer structure to obtain the actual results, and the processing (ii) of the testcase request comprises processing the testcase request against a computer simulation of the at least one primary structure or secondary structure to obtain the simulation results.

6. The method of claim 1, wherein the computer structure comprises a duplexed computer structure, and wherein the method further comprises initially selecting via a structure parameter within the testcase request whether the testcase request is to be processed against a primary structure, a secondary structure or both the primary structure and the secondary structure of the duplexed computer structure.

7. The method of claim 1, further comprising initially issuing the testcase request to the computer structure, and wherein the processing of the testcase request against the computer simulation comprises automatically intercepting the testcase request and processing the testcase request against the computer simulation responsive to issuing of the testcase request against the computer structure.

8. The method of claim 1, wherein the updated computer structure content comprises updated data and control information of the computer structure, and wherein the updated computer simulation content comprises updated data and control information of the computer simulation.

9. A system for testing a computer structure, said system comprising:

(i) means for processing a testcase request against a computer structure to obtain actual results and to update computer structure content;

(ii) means for processing the testcase request against a computer simulation of the computer structure to obtain simulation results and to update computer simulation content; and

(iii) means for automatically verifying processing of the testcase request against the computer structure by comparing the actual results against the simulation results, and by comparing the updated computer structure content against the updated computer simulation content.

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10. The system of claim 9, further comprising means for processing multiple testcase requests against the computer structure, and means for processing the multiple testcase requests against the computer simulation of the computer structure, wherein the means for automatically verifying comprises means for automatically verifying processing of the multiple testcase requests by comparing after processing of each testcase request the respective actual results thereof against the simulation results thereof, and the updated computer structure content against the updated computer simulation content, wherein the computer simulation content is automatically updated with processing of each testcase request.

11. The system of claim 10, wherein said means for processing the testcase request against the computer simulation further comprises means for automatically intercepting the testcase request for processing against the computer simulation.

12. The system of claim 10, wherein the computer structure comprises a list structure or a cache structure.

13. The system of claim 12, wherein the computer structure comprises a duplexed computer structure and wherein the means for processing (i) of the testcase request comprises means for processing the testcase request against at least one of a primary structure or a secondary structure of the duplexed computer structure to obtain the actual results, and the means for processing (ii) of the testcase request comprises means for processing the testcase request against a computer simulation of the at least one primary structure or secondary structure to obtain the simulation results.

14. The system of claim 9, wherein the computer structure comprises a duplexed computer structure, and wherein the system further comprises means for initially selecting via a structure parameter within the testcase request whether the testcase request is to be processed against a primary structure, a secondary structure or both the primary structure and the secondary structure of the duplexed computer structure.

15. The system of claim 9, further comprising means for initially issuing the testcase request to the computer structure, and wherein the means for processing of the testcase request against the computer simulation comprises means for automatically intercepting the testcase request and means for processing the testcase request against the computer simulation responsive to issuing of the testcase request against the computer structure.

16. The system of claim 9, wherein the updated computer structure content comprises updated data and control information of the computer structure, and wherein the updated computer simulation content comprises updated data and control information of the computer simulation.

17. A system for testing a computer structure, said system comprising:

at least one computing unit adapted to process a testcase request against a computer structure to obtain actual results and to update computer structure content; and

wherein the at least one computing unit is further adapted to process the testcase request against a computer simulation of the computer structure to obtain simulation results and to update computer simulation content; and

wherein the at least one computing unit is further adapted to automatically verify processing of the testcase request against the computer structure by comparing the actual results against the simulation results, and by comparing the updated computer structure content against the updated computer simulation content.

18. At least one program storage device readably by a machine tangibly embodying at least one program of instructions executable by the machine to perform a method of testing a computer structure, said method comprising:

(i) processing a testcase request against a computer structure to obtain actual results and to update computer structure content;

(ii) processing the testcase request against a computer simulation of the computer structure to obtain simulation results and to update computer simulation content; and

(iii) automatically verifying processing of the testcase request against the computer structure by comparing the actual results against the simulation results, and by comparing the updated computer structure content against the updated computer simulation content.

19. The at least one program storage device of claim 18, further comprising processing multiple testcase requests against the computer structure, and processing the multiple testcase requests against the computer simulation of the computer structure, wherein the automatically verifying comprises automatically verifying processing of the multiple testcase requests by comparing after processing of each testcase request the respective actual results thereof against the simulation results thereof, and the updated computer structure content against the updated computer simulation content, wherein the computer simulation content is automatically updated with processing of each testcase request.

20. The at least one program storage device of claim 19, wherein said processing the testcase request against the computer simulation further comprises automatically intercepting the testcase request for processing against the computer simulation.

21. The at least one program storage device of claim 19, wherein the computer structure comprises a list structure or a cache structure.

22. The at least one program storage device of claim 21, wherein the computer structure comprises a duplexed computer structure and wherein the processing (i) of the testcase request comprises processing the testcase request against at least one of a primary structure or a secondary structure of the duplexed computer structure to obtain the actual results, and the processing (ii) of the testcase request comprises processing the testcase request against a computer simulation of the at least one primary structure or secondary structure to obtain the simulation results.

23. The at least one program storage device of claim 18, wherein the computer structure comprises a duplexed computer structure, and wherein the method further comprises initially selecting via a structure parameter within the testcase request whether the testcase request is to be processed against a primary structure, a secondary structure or both the primary structure and the secondary structure of the duplexed computer structure.

24. The at least one program storage device of claim 18, further comprising initially issuing the testcase request to the computer structure, and wherein the processing of the testcase request against the computer simulation comprises automatically intercepting the testcase request and processing the testcase request against the computer simulation responsive to issuing of the testcase request against the computer structure.

25. The at least one program storage device of claim 18, wherein the updated computer structure content comprises updated data and control information of the computer structure, and wherein the updated computer simulation content comprises updated data and control information of the computer simulation.

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